

ABSTRACT OF THE DISCLOSURE

Selective Cellular Targeting: Multifunctional Delivery Vehicles, Multifunctional Prodrugs, Use as Antineoplastic Drugs

The present invention relates to the compositions, methods, and applications of a novel approach to selective cellular targeting. The purpose of this invention is to enable the selective delivery and/or selective activation of effector molecules to target cells for diagnostic or therapeutic purposes. The present invention relates to multi-functional prodrugs or targeting vehicles wherein each functionality is capable of enhancing targeting selectivity, affinity, intracellular transport, activation or detoxification. The present invention also relates to ultra-low dose, multiple target, multiple drug chemotherapy and targeted immunotherapy for cancer treatment.